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APPLICATION NO.	FI	LINGDATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/082,581	(	02/25/2002	Robert J. Spain	CCW-001	5703	
959	7590	06/30/2004		EXAMINER		
LAHIVE &	COCKF	TELD, LLP.	MUTSCHLER, BRIAN L			
28 STATE STREET BOSTON, MA 02109				ART UNIT	PAPER NUMBER	
				1753		

DATE MAILED: 06/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE £ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Examinous of time may be available under the proteiner of 3° CFR 1.13(d), in no event, however, may a reply be timely filed  If the period for reply specified above is less than thirty (30) days, a reply within the statatory minimum of thirty (30) days, will be considered timely.  If the period for reply specified above is less than thirty (30) days, a reply within the statatory minimum of thirty (30) days, will be considered timely.  If the period for reply specified above is less than thirty (30) days, a reply within the statatory minimum of thirty (30) days, will be considered timely.  If the period for reply specified above is less than thirty (30) days, a reply within the statatory minimum of thirty (30) days will be considered timely.  If the period for reply specified above is less than thirty (30) days and a reply reply and will depth the mailing date of this communication.  Fallure to reply within the set or extended period for reply with the set or extended period for reply specified and the set of the communication.  Fallure to reply within the set or extended period for reply within the state of the communication.  Application is application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s)		Application No.	Applicant(s)	Ch
Brian L. Mutschler  - The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  THE MAILING DATE OF THIS COMMUNICATION.  If the peled for reply specified above is less than thirty (39) days, a reply white in the statutory minimum of thirty (30) days will be considered through a share 3x (s) (s) MONTH for the meaning date of this communication.  If the peled for reply specified above is less than thirty (39) days, a reply white in the statutory minimum of thirty (30) days will be considered through the statutory minimum of thirty (30) days will be considered through the statutory minimum of thirty (30) days will be considered through the statutory minimum of thirty (30) days will be considered through the statutory minimum of thirty (30) days will be considered through the statutory minimum of thirty (30) days will be considered through the statutory minimum of thirty (30) days will be considered through the statutory minimum of thirty (30) days will be considered through the statutory minimum of thirty (30) days will be considered through the statutory minimum of thirty (30) days will be considered through the statutory minimum of thirty (30) days will be considered through the statutory of		10/082,581	SPAIN ET AL.	
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THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provision of 3° CPR 1.13(s). In an event, however, may a reply be timely filed after SIX (5) MONTHS from the mailing date of this communication of 3° CPR 1.13(s). In an event, however, may a reply be timely filed after SIX (5) MONTHS from the mailing date of this communication of the SIX (5) MONTHS from the mailing date of this communication of the six has the time of the six (6) MONTHS from the mailing date of this communication of the six of extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S. C, § 13.3). Any reply review by the Offici derir has there mailing date of this communication, even if timely filed, may reduce any examel patent term adjustment. See 3° CFR 1.704(b).  Status  1) Responsive to communication(s) filed on	The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	rith the correspondence addres	SS
1) Responsive to communication(s) filed on	A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO  - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication  - If the period for reply specified above is less than thirty (30) days, a  - If NO period for reply is specified above, the maximum statutory per  - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m	DN. R 1.136(a). In no event, however, may a . I reply within the statutory minimum of thi riod will apply and will expire SIX (6) MO atute. cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this commu. BANDONED (35 U.S.C. § 133).	inication.
2a]  This action is FINAL. 2b)  This action is non-final.  3   Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s)	Status			
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	3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE	3/08) 5) Notice of	Informal Patent Application (PTO-15	2)

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## **DETAILED ACTION**

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claims 1-33, drawn to a panel processing apparatus for applying a product, classified in class 401, subclass 137.
  - II. Claims 34-39 and 66, drawn to an electroplating apparatus, classified in class 204, subclass 242.
  - III. Claims 40-52, drawn to a method for applying a product, classified in class 239, subclass 1.
  - IV. Claims 53-61, drawn to a method for applying a metallization product, classified in class 427, subclass 230.
  - V. Claims 62-65, drawn to a method for electroplating panels, classified in class 205, subclass 118.
- 2. The inventions are distinct, each from the other because of the following reasons: Inventions of Groups I and II and Groups III, IV, and V are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the apparatus of Groups I and II can be used to perform different processes than those present in Groups III, IV, and V. For example, the apparatus can be used to apply materials to panels other than circuit

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panels or to perform processes other than electroplating, such as those described in claims 22-28.

Inventions of Group I and Group II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different structural features. Group II has an electrical connector and an anode, and Group I can be used for slurries or hole blasting.

Inventions of Group III, Group IV, and Group V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are used to perform different processes. Group III can be used for electroless copper deposition, chemical etchback and desmearing, honing, microetching, etc. Group IV is used for applying a metallization product, which can include electroless plating, spray coating, immersion coating, or other similar procedures. Group V is used for electroplating.

3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

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4. This application contains claims directed to patentably distinct species of the claimed invention. Group I and Group III each contain patentably distinct species.

In Group I, the following species are patentably distinct: (1) apparatus for applying selected metallization product and electroless copper deposition; (2) apparatus for applying selected metallization product and electroplating copper for a printed circuit board; (3) apparatus for chemical etchback and desmear; (4) apparatus for honing a wall with a slurry of pumice; (5) apparatus for chemical microetching; and (6) apparatus for hole blasting with pressurized water and/or air.

In Group III, the following species are patentably distinct: (1) method for applying selected metallization product and electroless copper deposition; (2) method for applying a metallization product and electroplating copper for a printed circuit board; (3) method for chemical etchback and desmear; (4) method for honing a wall with a slurry of pumice; (5) method for chemical microetching; and (6) method for hole blasting with pressurized water and/or air.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, the panel processing apparatus of not requiring the limitations of claims 22-28 are generic to Group I. The method for applying a product not requiring the limitations of claims 46-52 are generic to Group III.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim

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is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian L. Mutschler whose telephone number is (571)

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272-1341. The examiner can normally be reached on Monday-Friday from 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BLM June 25, 2004

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700